

Appl. No. 09/627,139  
Amendment and/or Response  
Reply to Office action of 28 July 2005

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**Amendments to the Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently amended) An automated recommendation system, comprising[:]
  - a processor connected to receive resource data defining available resources
  - and at least two sets of profile data, each defining a user's preferences with respect to the resources;
  - each of the sets of profile data being derived from a different class of interaction of the user with a first portion of the resource data and usable to predict a given resource's desirability based on each of the sets;
  - the processor being adapted to:
    - generate at least two sets of predictions based on one or a combination of the sets of profile data, and
    - combine the predictions by weight-averaging corresponding ones from each of the at least two sets of predictions.
2. (Currently amended) A system as in claim 1, wherein
  - the processor is further adapted to:
    - generate a weighted sum of corresponding records from each of the sets of profile data to generate a single combined set of profile data, and
    - generate at least one of the sets of predictions from the single combined set.
3. (Previously presented) A system as in claim 2, wherein
  - the processor is connected to control a delivery of resources corresponding to the resource data and responsively to the predictions.

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4. (Previously presented) A system as in claim 1, wherein  
the processor is connected to control a delivery of resources corresponding to the resource data and responsively to the predictions.
5. (Previously presented) A system as in claim 1, wherein  
the at least two profile data sets include  
a feedback data set derived from ratings provided by the user with respect to a particular resource in the resource data.
6. (Previously presented) A system as in claim 1, wherein  
the at least two profile data sets include  
an implicit data set derived from machine-observation of a user's resource use history, whereby the implicit data reflects the user's selections of resources to use.
7. (Previously presented) A system as in claim 1, wherein  
at least one set of the at least two profile data sets comprises input vectors,  
and  
the input vectors each include feature-value pairs.
8. (Previously presented) A system as in claim 1, wherein  
at least one set of the at least two profile data sets comprises input vectors,  
and  
the input vectors include feature-value pairs and a rating value.

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9. (Currently amended) A method of recommending resources, comprising:
- generating at least two sets of profile data based on expressed preferences of a user with respect to the resources, each being usable to predict a given resource's desirability based on each of the sets;
  - generating at least two sets of predictions based on one or a combination of the sets of profile data; and
  - combining the predictions by weight-averaging corresponding ones from each of the at least two sets of predictions.
10. (Previously presented) A method as in claim 9, further comprising:
- generating a weighted sum of corresponding records from each of the sets of profile data to generate a single combined set of profile data; and
  - generating at least one of the sets of predictions from the single combined set.
11. (Previously presented) A method as in claim 10, further comprising
- controlling a delivery of resources corresponding to the resource data responsively to the predictions.
12. (Previously presented) A method as in claim 9, further comprising
- controlling a delivery of resources corresponding to the resource data responsively to the predictions.
13. (Currently amended) A method as in claim 9, wherein
- generating the at least two sets of profile data includes
  - generating a feedback data set by accepting ratings from a the user with respect to a particular resource in the resource data.

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14. (Currently amended) A method as in claim 9, wherein  
generating the at least two sets of profile data includes  
generating an implicit data set by observing ~~a~~the user's resource use history, whereby the implicit data reflects the user's selections of resources to use.
15. (Previously presented) A method as in claim 9, wherein  
at least one set of the at least two sets of profile data comprises input vectors,  
and  
the input vectors each include feature-value pairs.
16. (Previously presented) A method as in claim 9, wherein  
at least one set of the at least two sets of profile data comprises input vectors,  
and  
generating the at least two sets of profile data includes generating feature-value pairs and a rating value.
17. (Currently amended) A method as in claim 9, wherein:  
the sets of profile data includes:  
a set of explicit profile data indicating express indications by a user of preferred classes of programming rather than indications by the user of particular resources that are preferred;  
~~the sets of profile data further include~~  
a feedback data set derived from ratings provided by the user with respect to a particular resource in the resource data; and  
~~the sets of profile data further include~~  
an implicit data set derived from machine-observation of a user's resource use history, whereby the implicit data reflects the user's selection.

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18. (Currently amended) An automated recommendation system, comprising[[:]]  
a processor connected to receive resource data defining available resources  
and sets of profile data, each defining a user's preferences with respect to the  
resources;

the sets of profile data including;

a set of explicit profile data indicating express indications by a user of  
preferred classes of programming rather than indications by the user of particular  
resources that are preferred;

~~the sets of profile data further including~~

feedback data set derived from ratings provided by the user with  
respect to a particular resource in the resource data; and

~~the sets of profile data further including~~

an implicit data set derived from machine-observation of a user's  
resource use history, whereby the implicit data reflects the user's selection;

the processor being adapted to generate at least two sets of predictions based  
on one or a combination of the sets of profile data, each of the predictions including a  
confidence level;

the processor being further adapted to combine the predictions by weight-  
averaging corresponding ones from each of the at least two sets of predictions.

19. (Previously presented) A system as in claim 18, wherein

the processor is further adapted to adjust weights of the weight averaging  
responsively to a difference between the corresponding ones.

20. (Previously presented) A system as in claim 18, wherein

the processor is further adapted to selectively override the weight averaging  
responsively to a difference between the corresponding ones.

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21. (Currently amended) A method of automatically recommending resources,  
comprising[[:]]

receiving resource data defining available resources and sets of profile data,  
each defining user preferences with respect to the resources;

the sets of profile data including:

a set of explicit profile data indicating express indications by a user of  
preferred classes of programming rather than indications by the user of particular  
resources that are preferred;

~~the sets of profile data further including~~

a feedback data set derived from ratings provided by the user with  
respect to a particular resource in the resource data; and

~~the sets of profile data further including~~

an implicit data set derived from machine-observation of a user's  
resource use history, whereby the implicit data reflects the user's selection;

generating at least two sets of predictions based on one or a combination of  
the sets of profile data, each of the predictions including a confidence level; and

combining the predictions by weight-averaging corresponding ones from each  
of the at least two sets of predictions to produce a combined set.

22. (Previously presented) A method in claim 21, wherein

combining the predictions includes

adjusting weights of the weight averaging responsively to a difference  
between the corresponding ones.

23. (Previously presented) A method as in claim 21, wherein

combining the predictions includes

selectively overriding the weight averaging responsively to a difference  
between the corresponding ones such that a prediction of a one of the sets of  
predictions is included in the combined set and a prediction of the other of the sets of  
predictions is excluded.

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24. (Currently amended) A method of combining profile data, comprising:  
generating first profile data by receiving through a user interface user preferences in the form of expressed generalized preferences corresponding classes of resources;

generating second profile data by receiving user preferences in the form of rating data corresponding to specific resources; and

applying the first and second profile data to respective prediction engines to produce first and second prediction results and combining ~~respective the first and second results thereof~~.

25. (Currently amended) A method as in claim 24, further including[[:]]

combining the first and second profile data,

wherein

combining the first and second profiles includes weight averaging corresponding ones of the profile data.

26. (Previously presented) A method as in claim 24, wherein

combining respective results includes selectively weight averaging corresponding ones of the predictions.

27-29 (Canceled).